## **AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

1. (Currently Amended) A method in an intermediate node comprising a multicast/broadcast server and a streaming node Method for providing multicast for streaming transmission from a streaming server to users of a multicast group with the [[a]] multicast/broadcast server providing multicast transmission and with the [[a]] streaming node providing a streaming transmission based on an on-demand single-user signalling supporting the transmission of a streaming flow, the method comprising the steps of: characterised in that

an intermediate node is provided including the multicast/broadcast server and the streaming node with the following

- the intermediate node <u>establishing</u> establishes a bearer for a multicast transmission according to the requirements for streaming transmission,
- -the intermediate node <u>establishing</u> establishes a multi-user streaming session on the bearer by translating the on-demand single-user signalling received from the streaming server into multi-user push signalling.
- the intermediate node adapts adapting the received streaming flow to the multicast transmission according to the needs of a multicast group or subgroup of a multicast group,
- -the intermediate node replicates replicating the received streaming transmission according to the number of the multicast subgroups.
- 2. (Currently Amended) The method according to claim 1 further comprising the step of characterised in that the steaming node communicating with the server adapts the streaming transmission and forwards the adapted streaming transmission to the multicast/broadcast server, which replicates the received streaming transmission among subgroups of a multicast group.

- 3. (Currently Amended) The method according to claim 1 further comprising the step of characterised in that the multicast/broadcast server communicating with the server replicates the received streaming transmission among the subgroups of a multicast group and forwards each replicated streaming transmission to the streaming node, which adapts each streaming transmission.
- 4. (Currently Amended) The method according to claim1 wherein , 2 or 3 characterised in that a decision unit is provided for deciding how the received streaming flow is to be directed in the intermediate node.
- 5. (Currently Amended) The method according to claim 3 wherein er-4 characterised in that the streaming nodes have different capabilities and the multicast/broadcast server knows the different capabilities and addresses of the streaming nodes in order to select an appropriate streaming node for performing an appropriate adaptation of the streaming flow.
- 6. (Currently Amended) The method according to claim 5 wherein characterised in that in case a hierarchical coding is used the streaming flows are differentiated in the sense that a different number of layers is sent to different streaming nodes.
- 7. (Currently Amended) The method according to claim 1, wherein one of the claims 1 to 6 characterised in that the intermediate node administrates an address identifying the streaming flow arriving from the server.
- 8. (Currently Amended) The method according to claim 1, wherein one of the claims 1 to 7 characterised in that the intermediate node receives a session description message informing about the transmission parameters required for the streaming session and forwards the received parameters to the group members by means of the multi-user push signalling message.

- 9. (Currently Amended) The method according to claim 1, wherein one of the claims 1 to 7 characterised in that the intermediate node receives a session description message informing about the transmission parameters required for the streaming session and said intermediate node changes the received parameters according to the needs of the subgroups that receive a dedicated replicated stream and sends the changed parameter to the group members by means of the multi-user push signalling message.
- 10. (Currently Amended) The method according to claim 9 wherein characterised in that nodes higher up in the hierarchy are informed that the streaming flow is only to be forwarded to a single node lower in the hierarchy by means of a new message being distributed along the multicast delivery tree.
- 11. (Currently Amended) The method according to claim 1 wherein one of the claims 1 to 10 characterised in that the conversion between single-user ondemand and multi-user push signalling implies that certain messages are not propagated.
- 12. (Currently Amended) The method according to claim 1 wherein one of the claims 1 to 11 characterised in that the replication of the streaming flow is based on an access network, in which users are located or/and on the geographic area and/or on the Quality of Service a subgroup wishes for streaming sessions.
- 13. (Currently Amended) The method according to claim 12 wherein characterised in that the intermediate node requests the actual characteristics of the area in order to adapt the streaming flow accordingly.
- 14. (Currently Amended) The method according to claim 1 wherein one of the claims 1 to 13 characterised in that the intermediate node provides additional

information to the charging/billing server in order to guarantee an accurate charging and/or multi-user streaming related charging.

15. (Currently Amended) An intermediate Intermediate node being adapted to provide multicast for streaming transmission from a streaming server to group members of a multicast group with a multicast/broadcast server providing multicast transmission and with a streaming node providing a streaming transmission based on an on-demand single-user signalling supporting the transmission of a streaming flow wherein characterised in that

said intermediate node comprises: includes

means for receiving the streaming transmission;

the multicast/broadcast server, which includes and the streaming node with the following –

bearer establishing means in multicast/broadcast server for establishing a bearer for a multicast transmission according to the requirements for streaming transmission received from the server,

- session establishing means in multicast/broadcast server for establishing a multi-user streaming session on the bearer by translating the ondemand single-user signalling received from the streaming server into multi-user push signaling;

## the streaming node, which includes

- adaptation means in the streaming node for adapting the received streaming flow to the multicast transmission according to the needs of a multicast group, <u>and</u>

replication means for <u>replicating</u> replication of the received streaming transmission according the number of the multicast subgroups.

16. (Currently Amended) A system System being adapted to provide multicast for streaming transmission from a streaming server to group members of a multicast group with a multicast/broadcast server providing multicast transmission and with a streaming node providing a streaming transmission based on an on-demand

single-user signaling supporting the transmission of a streaming flow, the system comprising characterised in that said system has an intermediate node according to claim 15 and the method according to claim 1 is performed within the system.

an intermediate node for receiving the streaming transmission and:

establishing a bearer for a multicast transmission according to the requirements for streaming transmission.

establishing a multi-user streaming session on the bearer by translating the on-demand single-user signaling received from the streaming server into multi-user push signaling;

adapting the received streaming flow to the multicast transmission

according to the needs of a multicast group or subgroup of a multicast group; and
replicating the received streaming transmission according to the number
of the multicast subgroups.